

HIGH PRESSURE-RESISTANT MEMBER AND MANUFACTURING METHOD

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- **European:**

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Abstract of JP2002339054

PROBLEM TO BE SOLVED: To provide a high pressure-resistant member in which residual hydrogen can be reduced even when a carburizing or carbonitriding treatment using converted gas is applied and delayed fracture and reduction in bending fatigue strength and rolling fatigue strength due to hydrogen embitterment can be prevented, and also to provide a method for manufacturing the high pressure-resistant member. **SOLUTION:** Surface C quantity of the member is enriched to 0.6-1.5% by the gas carburizing or gas carbonitriding treatment, and then the member is kept at a temperature not higher than the Ac1 transformation temperature under a reduced pressure to reduce hydrogen. Successively, heating are continued at a temperature not lower than the Ac1 transformation temperature, followed by quenching to undergo hardening.

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